

**From:** [Perez, Myra](#)  
**To:** [Coltrain, Katrina](#)  
**Cc:** [pappel@eaest.com](mailto:pappel@eaest.com); [lvega\\_eaest.com](mailto:lvega_eaest.com); [Flores, Raymond](#); [Humphrey, Marvelyn](#)  
**Subject:** Wilcox - please reply  
**Date:** Thursday, August 18, 2016 1:48:23 PM  
**Attachments:** [2544.1.docx](#)

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Hello Katrina – Attached, please find copy of the MA that will be used for the SVOA soils. It contains many other target compounds in addition to the ones in the table. Using this MA will make it easier to set up and require less time for review and approvals from HQ and SMO. Please ask the contractor to review and provide comments if they have any questions or concerns.

If possible, please reply by tomorrow morning since I will schedule it in ASR tomorrow afternoon. No MA was required for the VOAs (soils/waters). No MA was available for the metals in your table.

Please contact me at your earliest convenience if you have questions or need additional information.

Thank you.

Myra Perez  
R6 CLP RSCC  
281-983-2130

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**From:** Flores, Raymond  
**Sent:** Thursday, August 18, 2016 1:17 PM  
**To:** Perez, Myra <[perez.myra@epa.gov](mailto:perez.myra@epa.gov)>  
**Subject:** RE: Wilcox Questions

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**From:** Perez, Myra  
**Sent:** Thursday, August 18, 2016 10:52 AM  
**To:** [pappel@eaest.com](mailto:pappel@eaest.com)  
**Cc:** Coltrain, Katrina <[coltrain.katrina@epa.gov](mailto:coltrain.katrina@epa.gov)>; Flores, Raymond <[flores.raymond@epa.gov](mailto:flores.raymond@epa.gov)>; [lvega\\_eaest.com](mailto:lvega_eaest.com) <[lvega@eaest.com](mailto:lvega@eaest.com)>; Humphrey, Marvelyn <[humphrey.marvelyn@epa.gov](mailto:humphrey.marvelyn@epa.gov)>  
**Subject:** RE: Wilcox Questions

Thanks for your prompt response.

I want to let you know that after extensive research by Ray, there are no MAs for the metals. They are too low. We can only reach the ICP-MS CRQLs for the analytes listed in the table below.

He is currently working on the SVOAs. We will keep you updated.

Thank you.

Myra Perez  
R6 CLP RSCC  
281-983-2130

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**From:** Appel, Patrick [<mailto:pappel@eaest.com>]

**Sent:** Thursday, August 18, 2016 10:39 AM

**To:** Perez, Myra <[perez.myra@epa.gov](mailto:perez.myra@epa.gov)>

**Cc:** Coltrain, Katrina <[coltrain.katrina@epa.gov](mailto:coltrain.katrina@epa.gov)>; Flores, Raymond <[flores.raymond@epa.gov](mailto:flores.raymond@epa.gov)>; Ivega\_eaest.com <[ivega@eaest.com](mailto:ivega@eaest.com)>

**Subject:** RE: Wilcox Questions

Hi Myra -

Based on reviewing the ERT Phase 1 data, we recommend adding 2,4-dimethylphenol and remove hexachlorobenzene and hexachlorobutadiene as target compounds of concern. Hexachlorobenzene and hexachlorobutadiene are not typically associated with petroleum refining and were not detected in any ERT samples. See redlines to the table below.

Let me know if you have any questions.

Thank you

Pat

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**From:** Coltrain, Katrina [<mailto:coltrain.katrina@epa.gov>]

**Sent:** Wednesday, August 17, 2016 3:21 PM

**To:** Perez, Myra; Appel, Patrick; Vega, Luis

**Cc:** Flores, Raymond; Humphrey, Marvelyn; Warren, Christy

**Subject:** RE: Wilcox Questions

Pat/ Luis please add additional information or adjust the 3-4 selected COPC if needed. Thanks

See blue below.

Katrina Higgins-Coltrain  
Remedial Project Manager  
US EPA Region 6  
LA/OK/NM Section (6SF-RL)  
1445 Ross Avenue  
Dallas, Texas 75202  
214-665-8143

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**From:** Perez, Myra

**Sent:** Wednesday, August 17, 2016 2:35 PM

**To:** Coltrain, Katrina <[coltrain.katrina@epa.gov](mailto:coltrain.katrina@epa.gov)>

**Cc:** Flores, Raymond <[flores.raymond@epa.gov](mailto:flores.raymond@epa.gov)>; Humphrey, Marvelyn <[humphrey.marvelyn@epa.gov](mailto:humphrey.marvelyn@epa.gov)>; Warren, Christy <[warren.christy@epa.gov](mailto:warren.christy@epa.gov)>

**Subject:** FW: Wilcox Questions

Hello Katrina – Ray has been reviewing all of the Wilcox forms and tables and we have the following questions:

1. Most of the soils for VOA analysis will be shipped to a CLP lab. Will you also accept CLP CRQLs for the four compounds listed by Christy in the table below? If the answer is yes, then it will not require a modified analysis (MA). Also, do you need lab QC (MS/MSD) for this analysis? We do not recommend lab QC for VOA and SVOA.

Yes, CLP CRQLs are OK.

If QC MS/MSD are not recommended, then we do not need them.

2. Soils and waters for SVOA analysis will be scheduled through the CLP. The screening levels provided, show some of the compounds in the PAH are lower than the SIM and many non-PAH are much lower than CLP CRQLs. In order to meet these screening levels (no guarantee a lab will bid nor achieve these low levels) an MA has to be prepared. However, since there are so many compounds listed in the table it is very difficult to prepare one. Is it possible to limit the targets of concern in the non-PAH list to 3 or 4? The same for the PAH with CRQLs lower than the SIM levels. Do you need lab QC (MS/MSD) for this analysis? We do not recommend lab QC for VOA and SVOA.

If QC MS/MSD are not recommended, then we do not need them.

3. The soils for TM + Hg + CN will be scheduled through the CLP. There are 9 out of 10 target analytes of concern in which the screening levels are lower than the ICP-MS levels. Some of the analytes have screening levels that are not achievable and labs might not bid on an MA due to these very low CRQLs. Can you select 3 or 4 analytes from the table?

Analyte	Analytical Method	CASRN	Units	Project Screening Level(5)	CRQL (6)		
					Low Soil by SIM	Low Soil	Medium Soil
Benzo(a)pyrene	SOM02.3	50-32-8	mg/kg	0.016	0.0033	0.17	5
Dibenz(a,h)anthracene	SOM02.3	53-70-3	mg/kg	0.016	0.0033	0.17	5
Naphthalene	SOM02.3	91-20-3	mg/kg	0.099	0.0033	0.17	5
<b>2,4-Dimethylphenol</b>		<b>105-67-9</b>	<b>mg/kg</b>	<b>0.01</b>	<b>--</b>	<b>0.17</b>	<b>5</b>
4-Methylphenol	SOM02.3	106-44-5	mg/kg	0.05	--	0.33	10
Hexachlorobenzene	SOM02.3	118-74-1	mg/kg	0.0025	--	0.17	5
Hexachlorobutadiene	SOM02.3	87-68-3	mg/kg	0.04	--	0.17	5
Phenol	SOM02.3	108-95-2	mg/kg	0.05	--	0.33	10
Antimony	ISM02.3	7440-36-0	mg/kg	0.14	--	1	--
Arsenic	ISM02.3	7440-38-2	mg/kg	0.68	--	0.5	--
Cadmium	ISM02.3	7440-43-9	mg/kg	0.0022	--	0.5	--
Vanadium	ISM02.3	7440-62-2	mg/kg	1.6	--	2.5	--

We (Ray, Christy and I) will be in tomorrow if you want to discuss this further or if you have questions. Please let me know.

Take care.

Myra Perez  
R6 CLP RSCC  
281-983-2130

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**From:** Warren, Christy

**Sent:** Wednesday, August 17, 2016 6:29 AM

**To:** Perez, Myra <[perez.myra@epa.gov](mailto:perez.myra@epa.gov)>; Flores, Raymond <[flores.raymond@epa.gov](mailto:flores.raymond@epa.gov)>

**Subject:** FW: Wilcox Questions

The higher RLs for the 4 compounds on the VOA soils lists are approved. See message below.

Christy Warren  
US EPA Region 6 Laboratory  
Sample Control Coordinator  
10625 Fallstone Road  
Houston, Texas 77099  
281-983-2137 (office)  
713-805-7157 (cell)

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**From:** Appel, Patrick [<mailto:pappel@eaest.com>]  
**Sent:** Tuesday, August 16, 2016 4:41 PM  
**To:** Warren, Christy <[warren.christy@epa.gov](mailto:warren.christy@epa.gov)>; Coltrain, Katrina <[coltrain.katrina@epa.gov](mailto:coltrain.katrina@epa.gov)>; lvega\_eaest.com <[lvega@eaest.com](mailto:lvega@eaest.com)>  
**Cc:** Turner, Philip <[Turner.Philip@epa.gov](mailto:Turner.Philip@epa.gov)>  
**Subject:** RE: Wilcox Questions

Hi Christy – these RLs should be ok.

Thank you  
Pat

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**From:** Warren, Christy [<mailto:warren.christy@epa.gov>]  
**Sent:** Tuesday, August 16, 2016 4:08 PM  
**To:** Coltrain, Katrina <[coltrain.katrina@epa.gov](mailto:coltrain.katrina@epa.gov)>; Appel, Patrick <[pappel@eaest.com](mailto:pappel@eaest.com)>; Vega, Luis <[lvega@eaest.com](mailto:lvega@eaest.com)>  
**Cc:** Turner, Philip <[Turner.Philip@epa.gov](mailto:Turner.Philip@epa.gov)>  
**Subject:** RE: Wilcox Questions

One more question for today. There are 4 compounds in the VOA soils where we do not meet the screening level. I have placed our RL highlighted in blue. Are these ok??

I will have further questions on metals soils tomorrow.

Analyte	CAS	Units	Project Screening Level <b>R6 RL</b>
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.127
1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	0.0053
1,2-Dibromoethane (EDB)	106-93-4	mg/kg	0.036
1,2-Dichlorobenzene	95-50-1	mg/kg	0.01
1,2-Dichloroethane	107-06-2	mg/kg	0.02
1,2-Dichloropropane	78-87-5	mg/kg	0.002 <b>0.005</b>

2-Butanone (Methyl ethyl ketone)	78-93-3	mg/kg	35
Acetone	67-64-1	mg/kg	2.5
Benzene	71-43-2	mg/kg	0.01
Bromodichloromethane	75-27-4	mg/kg	0.29
Carbon Tetrachloride	56-23-5	mg/kg	0.4
Chloroform	67-66-3	mg/kg	0.001 0.005
Cyclohexane	110-82-7	mg/kg	6,500
Ethylbenzene	100-41-4	mg/kg	0.03
Isopropylbenzene (Cumene)	98-82-8	mg/kg	1,900
Methylcyclohexane	108-87-2	mg/kg	6500
Tetrachloroethene	127-18-4	mg/kg	0.002 0.005
Toluene	108-88-3	mg/kg	0.01
Trichloroethene	79-01-6	mg/kg	0.001 0.005
Vinyl Chloride	75-01-4	mg/kg	0.01
m,p-Xylene	179601-23-1	mg/kg	580
o-Xylene	95-47-6	mg/kg	0.1

Christy Warren  
US EPA Region 6 Laboratory  
Sample Control Coordinator  
10625 Fallstone Road  
Houston, Texas 77099  
281-983-2137 (office)  
713-805-7157 (cell)

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**From:** Coltrain, Katrina  
**Sent:** Tuesday, August 16, 2016 3:12 PM  
**To:** [pappel@eaest.com](mailto:pappel@eaest.com); lvega\_eaest.com <[lvega@eaest.com](mailto:lvega@eaest.com)>  
**Cc:** Warren, Christy <[warren.christy@epa.gov](mailto:warren.christy@epa.gov)>; Turner, Philip <[Turner.Philip@epa.gov](mailto:Turner.Philip@epa.gov)>  
**Subject:** FW: Wilcox Questions

Pat/Luis, please respond to Christy's questions. Thanks

The Houston Hex Chromium RL is OK.

Katrina Higgins-Coltrain  
Remedial Project Manager  
US EPA Region 6  
LA/OK/NM Section (6SF-RL)  
1445 Ross Avenue  
Dallas, Texas 75202  
214-665-8143

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**From:** Warren, Christy

**Sent:** Tuesday, August 16, 2016 1:57 PM

**To:** Coltrain, Katrina <[coltrain.katrina@epa.gov](mailto:coltrain.katrina@epa.gov)>

**Subject:** Wilcox Questions

Katrina,

A few questions regarding Wilcox.

1. Air samples that are scheduled to be collected the week of September 12. Could they be collected the week of September 19?
2. On the COC target list for air. You have 3 – Chloropropene. Is that supposed to be 2-Chlorpropene?
3. For the Hexavalent Chromium. You have a project screening level listed of 0.035 ug/L. Our current RL is 0.050 ug/L. Is this ok?
4. Will the VOA water samples be chemically preserved?

Christy Warren  
US EPA Region 6 Laboratory  
Sample Control Coordinator  
10625 Fallstone Road  
Houston, Texas 77099  
281-983-2137 (office)  
713-805-7157 (cell)

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